				Automotive: Susp	ension and Steering- 1 of 2
Tra	de and Industrial Education School Y	Year	Student:		Grade:
Cou	rse: Automotive: Suspension and Steering		Teacher:	School:	
Cou	rse Code # 5710 Term:_	Number of Competencies in Course: 41 Number of Competencies Mastered:			
1 C	redit				
			Percent of Competencies		
			Tereent of Competencies	iviastered.	
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	DARD 1.0: Students will demonstrate leadership, citizens g Expectations		priate Mastery or Non-Mastery colu		Non-Mastery
	· ·	eneck the approp	prince Musicity of Holl Musicity Colu	Triastery	Tion mastery
1.1	Develop a plan for self-improvement.				
1.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction	on.			
1.3	Assess client expectations.				
1.4	Develop a working relationship with a mentor.				
ΓΑΝΙ	DARD 2.0: Students will demonstrate automotive technology	logy safety practices, i	ncluding Occupational Safety	and Health Administra	ation (OSHA) and
	nmental Protection Agency (EPA) requirements for an a				
	g Expectations		priate Mastery or Non-Mastery colu	mn Mastery	Non-Mastery
2.1	Comply with personal and environmental safety practices.	11	, , , , , , , , , , , , , , , , , , ,		,
2.2	Use protective clothing and safety equipment used in suspension and stee	ering servicing			
2.3	Use fire protection equipment.	ering servicing.			
2.4	Follow OSHA and EPA regulations affecting suspension and steering ser	rvice technology			
2.5	Respond to safety communications referring to suspension and steering i				
2.6	Pass with 100 % accuracy a written examination relating to safety issues.				
2.7	Pass with 100% accuracy a performance examination relating to safety.	•			
2.8	Maintain a portfolio record of written safety examinations and equipmen instructor.	t examinations for which the	student has passed an operational checker	out by the	
ra Nii	DARD 3.0: Students will apply fundamental science conc	ents to automotive sus	nongian and stagning systems t	aahnalaay	•
	g Expectations		priate Mastery or Non-Mastery colu		Non-Mastery
3.1	•		prince Musicity of Holl Musicity Colu	Triastery	Tion mastery
3.2	Examine how physics concepts apply to automotive suspension and steer Explore the application of fundamental laws of hydraulics to automotive		ama		
3.3	Analyze the characteristics and properties of liquids as applied to automotive				
3.3	Analyze the characteristics and properties of figures as applied to automo	buve suspension and steering s	system technology.		
ΓΑΝΙ	DARD 4.0: Students will properly test, diagnose, service,	and repair automotive	e steering systems.		
	g Expectations		priate Mastery or Non-Mastery colu	mn Mastery	Non-Mastery
4.1	Diagnose steering systems and determine necessary action.				
4.2	Clean, inspect, reassemble, adjust, and install power and manual steering	gear boxes.			
4.3	Clean, inspect, reassemble, adjust, and install power and manual rack and	-			
4.4	Inspect and repair steering columns.	<u> </u>			
4.5	Inspect and replace steering linkage components.				

Inspect, repair, and replace power steering pumps.

STANDARD 5.0: Students will properly test, diagnose, service, and repair automotive front suspension systems.

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Diagnose conventional and electronic front suspension systems and determine necessary action.			
5.2	Inspect and repair control arm and spring assemblies on conventional systems.			
5.3	Inspect and repair wheel spindles and bearings.			
5.4	Inspect and replace shock absorbers and stabilizer bars.			
5.5	Diagnose MacPherson strut assemblies and determine necessary action.			
5.6	Clean, inspect, and assemble MacPherson strut assemblies.			

STANDARD 6.0: Students will properly test, diagnose, service, and repair automotive rear suspension systems.

Learning	Learning Expectations Check the appropriate Mastery or Non-Mastery column		Non-Mastery
6.1	Inspect and diagnose conventional and electronic rear suspension systems and components and determine necessary action.		
6.2	Repair or replace rear suspension system components.		

STANDARD 7.0: Students will use proper equipment and procedures to set front and rear wheel alignment angles.

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Diagnose steering and tire wear problems and determine necessary action.			
7.2	Set correct alignment angles on front wheels.			
7.3	Set correct camber and toe on real wheels.			
7.4	Rotate and balance tire and wheel assemblies.			

STANDARD 8.0: Students will demonstrate communication skills required in the automotive service industry.

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Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery	
8.1	Communicate and comprehend oral and written information typically occurring in automotive suspension and steering diagnosis and repair.				
8.2	Solve suspension and steering problems and make decisions using a logical process.				
8.3	Use teamwork skills to accomplish goals, solve problems, and manage conflict within groups.				

STANDARD 9.0: Students will demonstrate interpersonal and employability skills required in the automotive service industry

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
9.1	Infer relationships between work ethics and organizational and personal job success.			
9.2	Develops customer service skills.			
9.3	Maintain a neat and orderly work area.			
9.4	Assess implications of diversity for communities and workplaces.			
9.5	Explore supervisory and management roles in the dealership or fleetshop.			